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Correction Circuits and Dynamic Aperture

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As part of the Future Circular Collider (FCC) study, a high energy upgrade of the LHC (HE-LHC) is studied. Putting this accelerator with twice the center of mass energy in the existing LHC-tunnel relies on the 16 T dipoles developed for the FCC-hh. Using recent field quality tables of these niobium-tin magnets, the dynamic aperture for different injection energies and two lattices is evaluated. Various correction strategies for the magnetic field errors are being investigated and their respective performance in terms of dynamic aperture is presented.

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